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LISTING OF CLAIMS:

1. (Previously presented): A non-invasive optical method for diagnosing internal bleeding

or hemorrhage in a human body by detecting leaked blood comprising: administering a

fluorescent compound parenterally; providing a light source having a light beam, wherein said

light beam contains a wavelength absorbable by said fluorescent compound, wherein said light

beam is illuminated at and transmitted through a thin layer of tissue into said human body; and

after administering said fluorescent compound for a few minutes, analyzing a fluorescence signal

produced from said fluorescent compound in said leaked blood for diagnosing the presence or

absence of internal bleeding in said human body; wherein said thin layer of tissue, < 1 cm in

thickness, is posterior fornix of vaginal wall, or rectal wall between the superior and inferior

rectal valves.

2. (Original): The method of claim 1, wherein said leaked blood is selected from a group

consisting of internal bleeding for gynecology, obstetrics, neonatology, surgery bleeding, post-

surgery bleeding, emergency medicine, and veterinary medicine.

3. (Canceled)

4. (Original): The method of claim 1, wherein said light source has a wavelength between

400 nm and 800 nm.

5. (Original): The method of claim 1, wherein said fluorescence signal has a wavelength

between 500 nm and 950 nm.

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6. (Original): The method of claim 1, wherein said fluorescent compound has a dosage effective for producing the fluorescence signal.

- 7. (Original): The method of claim 6, wherein said dosage is in the range between 0.1 mg/kg and 10 mg/kg.
 - 8. (Original): The method of claim 1, wherein said light source is a laser.
- 9. (Original): The method of claim 1, wherein said fluorescent compound is indocyanine green.
- (Original): The method of claim 1, wherein said fluorescence signal is either an image or a spectral signal.
- 11. (Previously presented): A non-invasive optical device for diagnosing internal bleeding in human body by detecting leaked blood comprising: a fluorescent compound administered parenterally, but not limited to intravenous injection; a light source having a light beam, wherein said light beam contains a wavelength absorbable by said fluorescent compound, wherein said light beam is illuminated at and transmitted through a thin layer of tissue into said human body; and fluorescence detection means for analyzing a fluorescence signal produced from said fluorescent compound in said leaked blood for diagnosing the presence or absence of internal bleeding in said human body; wherein said thin layer of tissue, < 1 cm in thickness, is posterior formix of vaginal wall, or rectal wall between the superior and inferior rectal valves.

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12. (Previously presented): The device of claim 11, wherein said leaked blood is selected from a group consisting of internal bleeding for gynecology, obstetrics, neonatology, surgery bleeding, post-surgery bleeding, emergency medicine, and veterinary medicine.

13. (Canceled)

14. (Original): The device of claim 11, wherein said light source has a wavelength

between 400 nm and 800 nm.

15. (Original): The device of claim 11, wherein said fluorescence signal has a wavelength

between 500 nm and 950 nm.

16. (Original): The device of claim 11, wherein said fluorescent compound has a dosage

effective for producing the fluorescence signal detectable by the fluorescence detection

means.

17. (Original): The device of claim 16, wherein said dosage is in the range between 0.1

mg/kg and 10mg/kg.

18. (Original): The device of claim 11, wherein said light source is a laser.

19. (Original): The device of claim 11, wherein said fluorescent compound is

indocyanine green.

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- 20. (Original): The device of claim 11, wherein said fluorescence signal is either an image or a spectral signal.
- 21. (Original): The device of claim 11, wherein said light beam is guided with at least one optical fiber.
- 22. (Original): The device of claim 11, wherein said fluorescence detection means comprises at least one optical filter or optical grating.
- 23. (Previously presented): The method of claim 1, wherein said thin layer of tissue is about 2 to 4 mm in thickness.
- 24. (Previously presented): The device of claim 11, wherein said thin layer of tissue is about 2 to 4 mm in thickness.
- 25. (Previously presented): The method of claim 1, wherein said leaked blood is in the cul-de-sac of abdomen.
- 26. (Previously presented): The device of claim 11, wherein said leaked blood is in the cul-de-sac of abdomen.